

1 ABSTRACT

2 A flexible membrane for use in test cells includes  
3 instrumentation within the thickness of the membrane to  
4 accurately measure a property of a material including stresses,  
5 strains, deformation, temperature, moisture potential and  
6 moisture content of the sample. A test sample is enclosed  
7 within the membrane to isolate the specimen from testing fluids  
8 in the test chamber. The instrumentation may measure axial  
9 strains or radial strains or both.

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